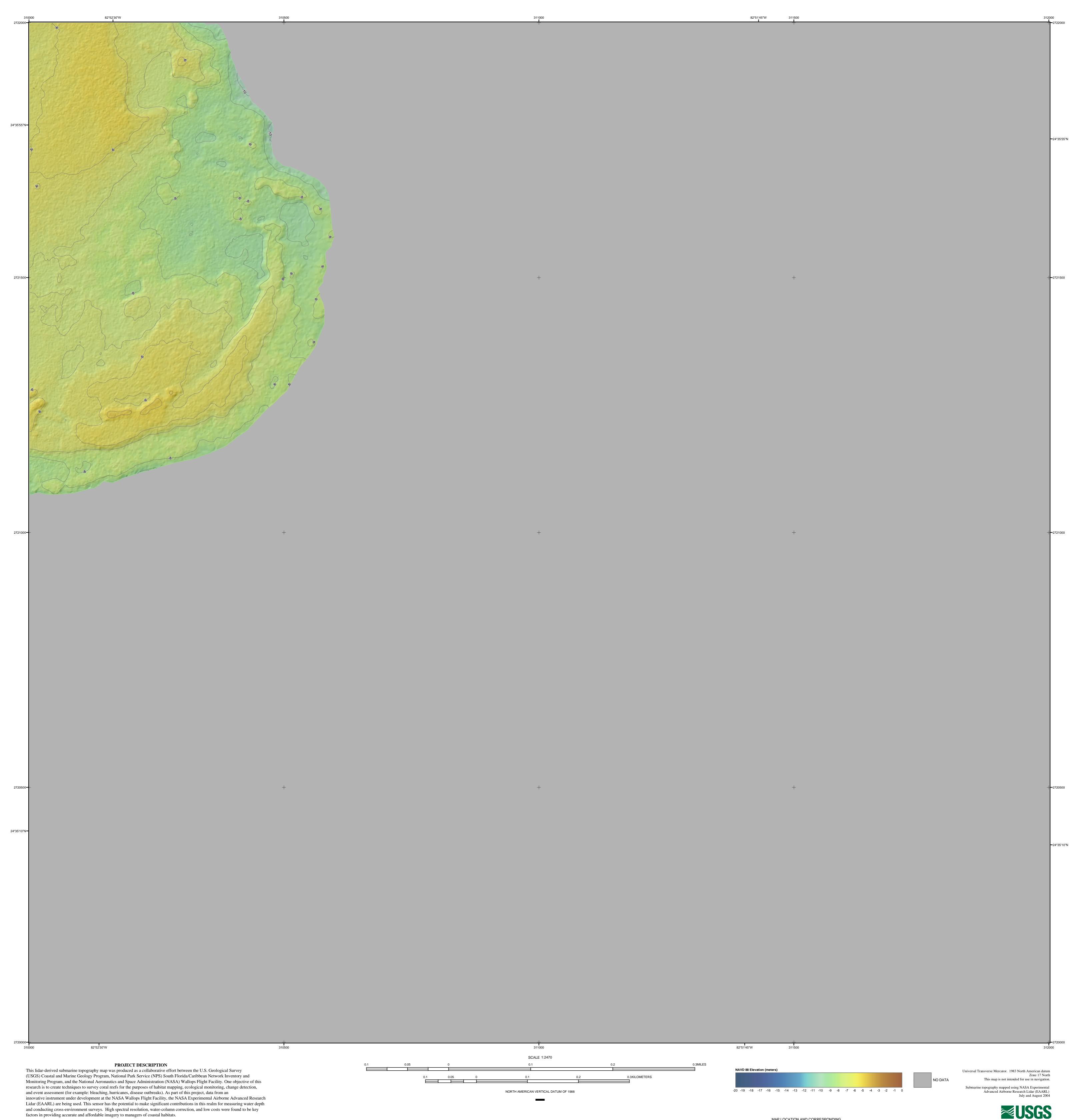
U.S. DEPARTMENT OF THE INTERIOR

OPEN FILE REPORT 2006-1244

U.S. GEOLOGICAL SURVEY

SHEET 67 OF 71 (ST)



Dry Tortugas National Park
USGS-NPS-NASA EAARL Submarine Topography
Map Tile 310000e\_2722000n

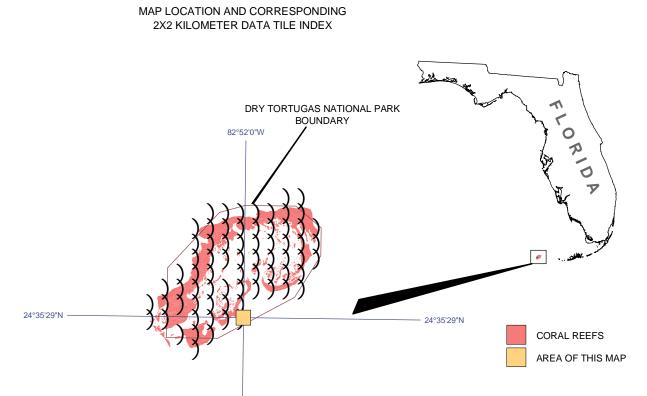
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DATA DESCRIPTION

Cessna 310 aircraft. The EAARL uses a 'waveform-resolving' green laser capable of mapping submarine and subaerial

sounding per square meter. The data were processed by the USGS Center for Coastal and Watershed Studies to produce 1-meter resolution raster images that can be easily ingested into a Geographic Information System (GIS). The data were

generated from the lidar data tile and incorporated into this map product.

U.S. Geological Survey Open File Report 2001-46, p. 4

Coast Association of Geological Societies, v. 52, p. 89-98.

organized as 2 km by 2 km data tiles in 32-bit floating-point integer GeoTiff format. Contour line and hillshade layers were

**FURTHER READING**Brock, J.C., and Sallenger, Ashbury, 2001, Airborne topographic lidar mapping for coastal science and resource management:

Brock, J.C., Wright, C.W., Nayegandhi, Amar, Clayton, Tonya, Hansen, Mark, Longenecker, John, Gesch, Dean, and Crane, Michael, 2002, Initial results from a test of the NASA EAARL lidar in the Tampa Bay Region: Transactions of the Gulf

Wright, C.W. and Brock, J.C., 2002, EAARL: A lidar for mapping shallow coral reefs and other coastal environments, in the Proceedings of the Seventh International Conterence on Remote Sensing for Marine and Coastal Environments, Miami,

May 20-22, 2002: Ann Arbor, MI, Veridian International Conferences, 1 computer optical disc.

The laser soundings used to create this map were collected during July and August 2004 by the NASA EAARL system mounted on a

(land) topography in a single overflight. The EAARL system is typically flown at 300 m altitude AGL, resulting in a 240 m swath for each flightline. Data collection occurred with approximately 50% overlap between flightlines, resulting in about one laser